

PROJECT DESCRIPTION

PROJECT:	Phoenix Children's Hospital	
LOCATION:	Phoenix, Arizona	
DESIGN TEAM:	<i>Architect:</i>	Karlsberger Architecture, Inc.
	<i>Structural Engineer:</i>	Karlsberger Architecture, Inc.
	<i>Geotechnical Engineer:</i>	PSI
CONTRACTOR:	Hunt Construction Group, Inc.	



DESCRIPTION:

- One-story hospital addition
- Column loads of 40 to 60 kips

Subsurface conditions at the site consist of silty to clayey sand over very stiff clay. The borings revealed the upper several feet of these deposits to be too loose and moist for footing support. Groundwater was not encountered within the 21.5' exploration depth.

The project geotechnical report recommended ground improvement with the Geopier® System. For spread footings founded upon Rammed Aggregate Pier® (RAP) elements, the project geotechnical engineer recommended a design bearing pressure of 4000 psf. A maximum design bearing pressure of 6000 psf was feasible.

RAP elements were 30" diameter. Piers were subjected to compression loading only and extended to a depth of 8' below bottom of footing. A total of 153 piers were constructed in only 5 working days on site.

REFERENCES:

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